



## tissin

## Smart Valve Positioner TS900 Series

- Quick and easy auto calibration
- Flapper / Nozzle type Torque motor
- By-pass valve (A/M switch) installed
- HART communication (HART 7)
  - PST & Alarm & Diagnostic function



### Smart Valve Positioner TS900/TS905 Series (Flame proof type)

### Description

TS900 Smart Valve Positioner controls the valve stroke in response to an input signal of 4-20mA from the control panel, DCS, or calibrator.

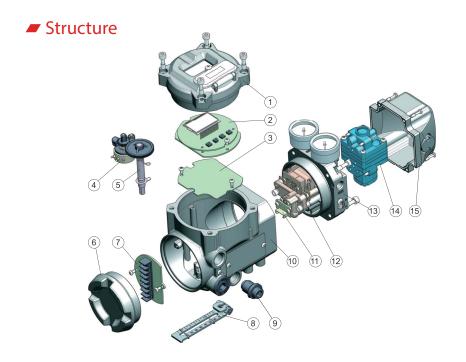
### Features







- + Quick and easy auto calibration
- + Large flow pilot valve (Over than 100LPM)
- + Flapper / Nozzle type Torque motor
- + By-pass valve (A/M switch) installed
- + HART communication (HART 7)
- + Partial stroke test (PST) function
- + Alarm function
- + Self diagnostic



Body cover
Main PCB
PCB guide
Potentiometer
Main shaft
Junction box cover
Terminal PCB
Feedback lever
Plug drain
Base body
Pressure sensor(Option)
Torque motor
Air connection block
Pilot valve
Pilot valve cover

## Smart Valve Positioner TS900/TS905 Series (Flame proof type)

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### Specifications

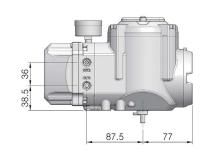
Model		TS900	TS905					
Input signal		4~20mA DC						
Impedance		500Ω at 20mA DC						
Supply pres	sure	0.14~0.7MPa						
Stroke		10~150mm(Linear), 0~90°(Rotary)						
Air connection		NPT1/4, G1/4						
Gauge connection		NPT1/8						
Conduit		NPT1/2, M20						
Explosion proof type		II 2G Ex db IIC T5/T6 Gb						
		II 2D Ex tb IIIC T85°C/T100 °C Db						
Enclosure		IP66 (EN60529)						
	Standard type	-30°C~80°C						
Ambient	Low temp type	-40°C~80°C						
Temp.	Explosion proof	-40°C~80°C(T5) / -40°C~70°C(T6)						
	LCD operating	-30°C~85°C						
Linearity		±0.5% F.S.						
Sensitivity		±0.2% F.S.						
Hysteresis		±0.5% F.S.						
Repeatability		±0.3% F.S.						
Air consumption		Below 2.3LPM (Sup=0.14MPa)						
Required air quality		Class 3 (ISO 8573-1)						
Flow capacity		Over 100LPM (Sup=0.14MPa)						
Material		Aluminum die cast	Stainless Steel 316					
Weight		3.5kg	7.0kg					
HART version*		HART 7						
Position transmitter*	Connection type	2 Wire						
	Supply voltage	9~30V DC						
Alarm switch*		9~30V DC						

#### Product code

Model		TS900			С					
Standard type STS316 type	TS9 TS9									
Acting type	Linear type Rotary type			L R						
Explosion proof type	Ex db II			С						
Connection	Conduit entry Air connection									
type	G1/2		PT1/4 1			1				
	G1/2		NPT1/4 2			2				
	NPT1/2		NPT1/4			3				
	M20		NPT	1/4		4				
	M20		G1/-	4		5				
Lever	10 ~ 80mm 1									
(Linear type)	70 ~ 150mm 2									
	Adapter type(30mm) 3									
	Adapter type(70mm) 4									
Lever (Rotary type)	M6 x 39	)L					1			
	NAMUR						5			
Ambient Temp.	-30°C~80°C S									
	-40°C~80°C							L		
	-60°C~85°C (For Russia EAC) U									
Communication None 4~20mA Position transmitter								0		
								1		
	HART							2		
HART with 4~20mA Position transmitter							3			
Alarm switch	None								0	
	Included Alarm switch									А

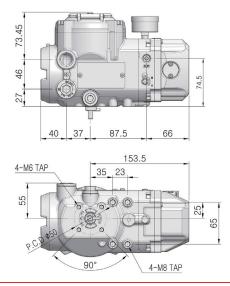
Notes:

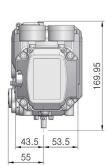
1. Conduit entry for ATEX/IECEx/CCC/NEPSI should be "NPT1/2" or "M20".



\* Options

### Dimension [Unit:mm]







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